

What is claimed is:

1. A vehicle hydraulic brake device comprising a hydraulic pressure source for generating a predetermined hydraulic pressure, a pressure adjusting valve for adjusting the output hydraulic pressure of said hydraulic pressure source to a value proportional to a brake operating amount, a pressure chamber, a master cylinder having a master piston actuated under the output hydraulic pressure of said pressure adjusting valve introduced into said pressure chamber for generating brake hydraulic pressure, and wheel cylinders actuated under the output hydraulic pressure from said master cylinder for generating braking force to wheels of the vehicle, further comprising a brake operating amount detecting means for detecting the brake operating amount, a master cylinder pressure detecting means for detecting the output hydraulic pressure of said master cylinder, and a bottoming detecting means for detecting the bottoming of said master piston by comparing the brake operating amount detected by said brake operating amount detecting means with the output hydraulic pressure of said master cylinder detected by said master cylinder pressure detecting means.

2. A vehicle hydraulic brake device comprising a hydraulic pressure source for generating a predetermined hydraulic pressure, a pressure adjusting valve for adjusting the output hydraulic pressure of said hydraulic pressure source to a value proportional to a brake operating amount, a pressure chamber, a tandem master cylinder having a first master piston actuated under the output hydraulic pressure of said pressure adjusting valve introduced into said pressure chamber to generate a first brake hydraulic pressure, and having a second master piston actuated under the first brake hydraulic pressure to generate a second brake hydraulic pressure, and wheel cylinders actuated under the first brake hydraulic pressure and the second brake hydraulic pressure for imparting braking force to wheels of the vehicle,

said first master piston and said second master piston having different effective diameters, and further comprising a brake operating amount detecting means for detecting the brake operating amount, a master cylinder pressure detecting means for detecting the second brake hydraulic pressure generated by said tandem master cylinder, and a bottoming detecting means for detecting the bottoming of said first master piston or said second master piston by comparing the brake operating amount detected by said brake

operating amount detecting means with the second brake hydraulic pressure detected by said master cylinder pressure detecting means.

3. A vehicle hydraulic brake device as claimed in claim 1 wherein the brake operating amount detected by said brake operating amount detecting means is a stroke of a brake operating member.

4. A vehicle hydraulic brake device as claimed in claim 2 wherein the brake operating amount detected by said brake operating amount detecting means is a stroke of a brake operating member.

5. A vehicle hydraulic brake device as claimed in claim 1 wherein the brake operating amount detected by said brake operating amount detecting means is a brake operating force applied to a brake operating member.

6. A vehicle hydraulic brake device as claimed in claim 2 wherein the brake operating amount detected by said brake operating amount detecting means is a brake operating force applied to a brake operating member.

7. A vehicle hydraulic brake device as claimed in claim 1 wherein the brake operating amount detected by

said brake operating amount detecting means is the output hydraulic pressure of said pressure adjusting valve, which is relevant to the brake operating amount.

8. A vehicle hydraulic brake device as claimed in claim 2 wherein the brake operating amount detected by said brake operating amount detecting means is the output hydraulic pressure of said pressure adjusting valve, which is relevant to the brake operating amount.

9. A vehicle hydraulic brake device comprising a hydraulic pressure source for generating a predetermined hydraulic pressure, a pressure adjusting valve for adjusting the output hydraulic pressure of said hydraulic pressure source to a value proportional to a brake operating amount, a pressure chamber, a tandem master cylinder having a first master piston actuated under the output hydraulic pressure of said pressure adjusting valve introduced into said pressure chamber to generate a first brake hydraulic pressure, and having a second master piston actuated under the first brake hydraulic pressure to generate a second brake hydraulic pressure, and wheel cylinders actuated under the first brake hydraulic pressure and the second brake hydraulic pressure for imparting braking force to wheels of the vehicle, further comprising a

first master cylinder pressure detecting means and a second master cylinder pressure detecting means for detecting the first brake hydraulic pressure and the second brake hydraulic pressure, respectively, which said tandem master cylinder outputs, and a bottoming detecting means for detecting the bottoming of said first master piston or said second master piston by comparing the first brake hydraulic pressure detected by said first master cylinder pressure detecting means with the second brake hydraulic pressure detected by said second master cylinder pressure detecting means.

10. A vehicle hydraulic brake device as claimed in claim 1 wherein said bottoming detecting means comprises an alarm means for producing an alarm if bottoming of said master piston is detected.

11. A vehicle hydraulic brake device as claimed in claim 2 wherein said bottoming detecting means comprises an alarm means for producing an alarm if bottoming of said master piston is detected.

12. A vehicle hydraulic brake device as claimed in claim 9 wherein said bottoming detecting means comprises an alarm means for producing an alarm if bottoming of said master piston is detected.